



An Energy Efficiency Workshop & Exposition

Palm Springs, California

Fort Jackson South Carolina



Tales from the Trenches



Agenda

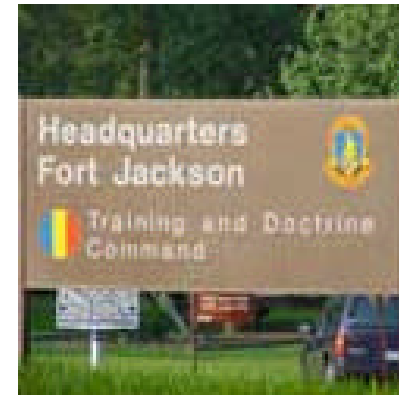
- **Fort Jackson Overview**
- **Scope of Work**
- **Financial Summary**
- **Benefits**



Fort Jackson Overview



- **Largest and most active initial training center in the United States Army**
- **Provides training to almost 50% of the men and women that enter the service each year**
- **Encompasses more than 52,000 acres of land including:**
 - Over 50 ranges and field training sites
 - Over 1,000 buildings





Fort Jackson Overview



- **Instruction for an average of 35,000 soldiers in basic training and advanced individual training each year**
- **An additional 19,000 attend courses at the**
 - **Soldier Support Institute**
 - **Chaplain Center and School**
 - **Drill Sergeant School**





A City Within A City



- **Employs 3,900 civilians providing service to more than 100,000 personnel, retirees and family members**
 - 1,266 family housing units
 - Community activities center, swimming pools, bowling centers, gymnasiums, two championship golf courses, football and soccer fields , softball complex and a youth sports complex
 - Three elementary schools, two child development centers, one hospital, and a fire and ambulance service





FEMP Focus Newsletter

- **“Fort Jackson Super ESPC Project Breaks New Ground” *January/February 2002 Issue***
- **Largest delivery order to date under a DOE Regional Super ESPC**
- **First GHP project under regional rather than GHP-technology-specific Super ESPC**
- **“Innovative Financial Strategies Save \$9 Million”**





Scope of Work

- **Ground Source Heat Pump Retrofit -
Family Housing**
- **Ground Source Heat Pump Retrofit -
Palmetto Lodge**
- **Ground Source Heat Pump Retrofit -
Kennedy BOQ**



Scope of Work

- **De-Super Heaters (Domestic Hot Water)**
- **Lighting Upgrade**
- **Chiller Plant Upgrades - CEP#2**
- **Demand Limiting System - Family Housing & Palmetto Lodge**



Scope of Work

□ **Maintenance**

- Monitored by DukeSolutions
- Continued with existing personnel

□ **Monitoring & Verification (M&V)**

Option A: Agreed upon baseline and savings, verified equipment performance



Financial Summary

- **Implementation Price** **\$ 19,020,000**
- **Annual Energy Savings** **\$ 1,367,658**
- **Annual M&O Savings** **\$ 267,000**
- **Finance Term** **19 years**





Contract



Features	Benefits
<ul style="list-style-type: none">□ Title conveys to Ft. Jackson at acceptance□ 19 month construction period savings used to reduce principal (\$1 million)□ Annual debt service payments made in advance vs. arrears	<ul style="list-style-type: none">□ Ft. Jackson is exempt from local property taxes, lowering overall cost to the post□ Ft. Jackson shortened contract term by three years and saved \$9 million in interest charges



Program Benefits



- ❑ **Improve existing building infrastructure**
- ❑ **Provide safer and healthier living and working conditions**
- ❑ **Reduce energy use and costs**
- ❑ **Reduce maintenance deficit and costs**
- ❑ **Help meet mandated energy and emissions reduction goals**
- ❑ **Guaranteed results**





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Thank You

AMERESCO SOLUTIONS

